

Amendments to The Claims:

Amend claims as shown in the following marked version of the amended claims:

1 1. (Currently Amended) In a network computing system, an
2 apparatus for providing direct processing access between
3 application servers and application users comprising:

4 a main storage capable of establishing processing
5 communication with more than one application server, each
6 application server in a separate image provided for virtual
7 systems in said main storage;

8 said main storage containing a queuing mechanism for
9 retrieval and storage of incoming and outgoing data without
10 causing interrupts in any running programs;

11 an interface element capable of establishing processing
12 communication between said queuing mechanism and at least one
13 application user;

14 an interrogator operating independent of any
15 application server for examining multiple queues in said queue
16 mechanism to transfer appropriate requests, responses and data
17 between said application servers and said application user(s).

1 2. (Previously Amended) The apparatus of claim 1, wherein
2 said Interface Element further comprises a Connector Interface
3 Element and a Network Interface Element.

1 3. (Original) The apparatus of claim 2, wherein said
2 Connector Interface Element is in processing communication with
3 said main storage via a Self-Timed Interface or an STI bus.

1 4. (Original) The apparatus of claim 2, wherein said
2 Connector Interface Element comprises a plurality of processors.

1 5. (Original) The apparatus of claim 4, wherein one of said
2 plurality of processors is used for redundancy purposes.

1 6. (Original) The apparatus of claim 2, wherein said main
2 storage can be in processing communication with a plurality of
3 network elements and servers.

1 7. (Previously Amended) The apparatus of claim 6, wherein
2 said plurality of network elements comprise at least a
3 web-server.

1 8. (Original) The apparatus of claim 7, wherein said
2 web-server is a TCP/IP oriented server.

1 9. (Previously Amended) The apparatus of claim 2, wherein
2 said Connector Interface Element and said Network Interface
3 Element are in processing communication with one another via a
4 Peripheral Controller Interface bus or a PCI bus.

1 10. (Previously Amended) The apparatus of claim 2, wherein
2 said Network Interface Element further comprises an I/O device
3 adapter, at least one more processor and a local storage area.

1 11. (Original) The apparatus of claim 10, wherein said
2 Network Interface Element is capable of connecting to one or more
3 individual application users.

1 12. (Currently Amended) The apparatus of claim 1, wherein
2 said Interface Element performs computing network environment
3 functions establishing network communications between said
4 application ~~server(s)~~ servers and said application user(s).

1 13. (Previously Amended) The apparatus of claim 1, wherein
2 said Interface Element performs control unit functions.

1 14. (Currently Amended) In a network computing system
2 having a main storage capable of connecting to more than one
3 application server and an interface element with at least one
4 adapter capable of establishing processing communication with at
5 least one application user(s), an apparatus for providing direct
6 processing access between said main storage and said adapter
7 comprising:

8 for each application server, a separate image provided
9 for virtual systems in said main storage

10 data receivers set up in each of said application
12 servers for processing data;

13 a plurality of queues located in main storage for
14 providing continuous running of programs without interruptions;

15 an updator for changing the status of said network
16 computing system every time new data is received, deleted or
17 modified;

18 an interrogator operating independent of any
19 application server for interrogating multiple existing queues in
20 said main storage simultaneously to process any received data or
21 requests such that data or requests may be received from more
22 than one application server;

23 a determinator for interrogation and routing of data to
24 the appropriate application user to which said data has been
25 forwarded.

1 15. (Previously Amended) The apparatus of claim 14, wherein
2 said Interface Element further comprises a Connector Interface
3 Element and a Network Interface Element.

1 16. (Original) The apparatus of claim 15, wherein said
2 Connector Interface Element is in processing communication with
3 said main storage via a Self-Timed Interface or an STI bus.

1 17. (Original) The apparatus of claim 15, wherein said main
2 storage can be in processing communication with a plurality of
3 network elements and servers.

~~18.~~ 18. (Previously Amended) The apparatus of claim 15, wherein
2 said Connector Interface Element and said Network Interface
3 Element are in processing communication with one another via a
4 Peripheral Controller Interface bus or a PCI bus.

1 19. (Previously Amended) The apparatus of claim 15, wherein
2 said Network Interface Element further comprises an I/O device
3 adapter, at least one more processor and a local storage area.

1 20. (Original) The apparatus of claim 19, wherein said
2 Network Interface Element is capable of connecting to one or more
3 individual application users.

1 21. (Original) The apparatus of claim 15, wherein said
2 Connector Interface Element is in processing communication with
3 said main storage via a direct access memory I/O device.

1 22. (Previously Amended) The apparatus of claim 15, wherein
2 said Connector Interface Element and said Network Interface
3 Element are in processing communication with one another via a
4 direct access memory I/O device.